

85529
Delaval, Jan

From: Roark, Jessica
Sent: Wednesday, January 29, 2003 11:56 AM
To: Delaval, Jan
Subject: 09/726,899

Jan,

Please update the PGPub and issued files for the following from 09/726,899:

SEQ ID NO:3
SEQ ID NO:3 as an oligo.

Results on paper please.

Thanks!

Jessica H. Roark

CM1 8A03
Mailbox 9E12
Art Unit 1644
703 605-1209

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 – 703-308-4498
jan.delaval@uspto.gov

WEST Search History

DATE: Wednesday, January 29, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR

L8	L6 and (antibody same (dehydrogenase or NADH or NDS-2))	351	L8
----	---------------------------------------------------------	-----	----

L7	L6 and (B15 or NDS-2)	4	L7
----	-----------------------	---	----

L6	L5 and (@RLAD<19970117 or @PD<19970117)	1253	L6
----	-----------------------------------------	------	----

L5	L4 and antibody.bsum.	2311	L5
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L4	(dehydrogenase or NADH).bsum.	6385	L4
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L3	L2 and antibody	11086	L3
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L2	dehydrogenase or NADH	21327	L2
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DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

L1	6399345.pn. or 5814451.pn.	2	L1
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END OF SEARCH HISTORY

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 29, 2003, 13:30:03 : Search time 11 Seconds
(without alignments)
236.639 Million cell updates/sec

Title: US-09-726-899-3

Perfect score: 678
Sequence: 1 MSFPRKRSRLRLEPFLDP.....DRKEKLIQEGKIDRFHLSY 129

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Number of hits satisfying chosen parameters: 122226

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	678	100.0	129	10	US-09-726-899-3
2	514	75.8	129	10	US-09-726-899-10
3	76	11.2	16	10	US-09-923-239-1044
4	70	10.3	337	10	US-09-814-777A-126
5	70	10.3	340	10	US-09-814-777A-15
6	70	10.3	384	10	US-09-814-777A-18
7	70	10.3	384	10	US-09-814-777A-20
8	70	10.3	470	10	US-09-814-777A-100
9	69	10.2	656	9	US-09-931-795-4
10	69	10.2	656	10	US-09-728-910-4
11	69	10.2	660	9	US-09-931-795-2
12	69	10.2	660	10	US-09-728-910-2
13	68	10.0	724	9	US-10-068-059-12
14	67.5	10.0	462	10	US-09-814-777A-99
15	67	9.9	746	9	US-10-068-059-6
16	64.5	9.5	285	12	US-10-027-450-24
17	64	9.4	305	9	US-10-028-072-264
18	64	9.4	305	10	US-09-731-872-285
19	63.5	9.4	416	9	US-10-114-893-198

20	62.5	9.2	376	9	US-09-854-286-22	Sequence 22, Appl
21	62	9.1	1040	9	US-10-002-974-4	Sequence 4, Appl
22	62	9.1	1040	12	US-10-014-269-4	Sequence 4, Appl
23	61.5	9.1	353	10	US-09-801-368-116	Sequence 116, App
24	61.5	9.1	1251	10	US-09-778-927A-58	Sequence 58, Appl
25	61.5	9.1	1602	10	US-09-778-927A-59	Sequence 59, Appl
26	61	9.0	403	9	US-09-864-921-176	Sequence 176, App
27	61	9.0	619	12	US-10-000-864-10	Sequence 10, Appl
28	61	9.0	795	9	US-09-864-921-188	Sequence 188, App
29	61	9.0	1007	9	US-10-002-974-34	Sequence 34, Appl
30	61	9.0	1007	9	US-10-002-974-55	Sequence 55, Appl
31	61	9.0	1007	12	US-10-014-269-34	Sequence 107, App
32	61	9.0	1009	9	US-09-864-921-107	Sequence 107, App
33	61	9.0	1013	9	US-10-002-974-3	Sequence 3, Appl
34	61	9.0	1013	12	US-10-014-269-3	Sequence 3, Appl
35	61	9.0	1040	9	US-10-002-974-2	Sequence 2, Appl
36	61	9.0	1040	9	US-10-002-974-59	Sequence 59, Appl
37	61	9.0	1040	9	US-10-002-974-61	Sequence 61, Appl
38	61	9.0	1040	9	US-10-002-974-63	Sequence 63, Appl
39	61	9.0	1040	9	US-10-002-974-65	Sequence 65, Appl
40	61	9.0	1040	9	US-10-002-974-67	Sequence 67, Appl
41	61	9.0	1040	9	US-10-002-974-69	Sequence 69, Appl
42	61	9.0	1040	9	US-10-002-974-85	Sequence 85, Appl
43	61	9.0	1040	9	US-10-002-974-87	Sequence 87, Appl
44	61	9.0	1040	12	US-10-014-269-2	Sequence 2, Appl
45	60	8.8	164	9	US-10-174-590-568	Sequence 568, App

ALIGNMENTS

RESULT 1
US-09-726-899-3
Sequence 3, Application US/09726899
Patent No. US20010041356A1
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL SUBUNITS OF MADH DEHYDROGENASE
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/726,899
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/785,065
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0187 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 129 amino acids
TYPE: amino acid
STRANDEDNESS: single

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;      TOPOLOGY: linear
;      IMMEDIATE SOURCE:
;      LIBRARY: Consensus
;      CLONE: Consensus
;
US-09-726-899-3

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Query Match	100.0%;	Score 678;	DB 10;	Length 129;
Best Local Similarity	100.0%;	Pred. No. 9.2e-76;		
Matches 129; Conservative	0;	Mismatches	0;	Indels 0;
				Gaps 0

QY	1	MSFPRKRSSTLRTPETLDPALVEYISPTBRAQAQERLAIRQLRREYLLQYNDPNRRGLI	60
Db	1	MSFPRKYPSSLRITLPETLDPALVEYINISPTBRAQAQERLAIRQLRREYLLQYNDPNRRGLI	60
QY	61	ENPFLLRMAVYARTINVPNPRPPTPKNSLMGALGEGFLIFITYIITIKERBRKELLQEGK	120
Db	61	ENPFLLRMAVARTINVPNPRPPTPKNSLMGALGEGFLIFITYIITIKERBRKELLQEGK	120
QY	121	LDRTFHLSY	129
D	121	LDRTFHLSY	129

Query Match	75.8%;	Score 514;	DB 10;	Length 129;
Best Local Similarity	73.6%;	Pred. No. 1.1e-55;		

Matches	95;	Conservative	18;	Mismatches	16;	Indels	0;	Gaps	0;
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QY      1 MSFPYKXSSLTDEETLDPAEVYNSPPTRAQAERLAIQAOLKEVLLQYNDPNRRGL  60
      1 | | | | | : | : | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      1 MSFPYKXSSLTDEETLDPAEVYNSPPTRAQAERLAIQRLEKQYQYDPSRRGVI  60
      1 | | | | | : | : | | | | | | | | | | | | | | | | | | | | | | | | | |

QY      61 ENPALLRAVARTINVPNFPPTPKNSLMGALCGEPLIFIVYIKTERDORKEKLEQK  120
      1 | | | | | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      61 EDPALVRKTYARSANITYNERNPKTKSLTGLALFGIGLPLVYVYFKTDROKREKLEQK  120
      1 | | | | | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY      121 LDRFPHLSY  129
      1 | | | | | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      121 LDRTFNYSY  129
      1 | | | | | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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RESULT 3
US-09-925-299-1044
; Sequence 1044, Application US/09925299
; Patent No. US2002005637A1

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? TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
? FILE REFERENCE: PA102
? CURRENT APPLICATION NUMBER: US/09/925, 299
? CURRENT FILING DATE: 2001-08-10
? PRIOR APPLICATION NUMBER: PCT/US00/05883
? PRIOR FILING DATE: 2000-03-08
? PRIOR APPLICATION NUMBER: 60/124,270
? PRIOR FILING DATE: 1999-03-12
? NUMBER OF SEQ ID NOS: 1556
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 1044
? LENGTH: 16
? TYPE: PRT
? ORGANISM: Homo sapiens
US-09-925-299-1044

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Query Match	11.2%	Score 76:	DB 10:	Length 16:
Best Local Similarity	93.8%	Pred. No. 0.0027:		
Matches 15:	Conservative	0:	Mismatches 1:	Indels 0:
114 KLIDGKLDRTFHLST	129			
1 KLIDGKLDRTFHLST	16			
DB				

```

RESULT 4
US-09-814-777A-126
: Sequence 126, Application US/09814777A
: Patent No. US20020142415A1
: GENERAL INFORMATION:
: APPLICANT: KOOPMAN, Peter Anthony
: APPLICANT: MUSCAT, George Eugene Orlando
: TITLE OF INVENTION: NOVEL POLYPEPTIDES AND POLYNUCLEOTIDES AND METHODS OF USING THEM
: FILE REFERENCE: 21415-0003
: CURRENT APPLICATION NUMBER: US/09/814,777A
: CURRENT FILING DATE: 2001-03-23
: PRIOR APPLICATION NUMBER: AU P06457
: PRIOR FILING DATE: 2000-03-24
: NUMBER OF SEQ ID NOS: 128
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 126
: LENGTH: 337
: TYPE: PRT
: ORGANISM: Human
: US-09-814-777A-126

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Query Match	10.3%	Score 70;	DB 10;	Length 337;
Best Local Similarity	20.8%	Pred. No. 0.99;		
Matches	31;	Conservative	21;	Mismatches 43;
				Indels 5;
				Gaps
QY	4	PKKSSLTLPETDPAEYNISPETR	-----	AOLKREYLLQYN 520

Db 4 PASPPSPQSPRSPSPGRLGLSPAGRGEGQADESRIRRPMAFMWAKDERKRLAQN 63
Qy 53 D-----PNRGLIENPALLRMAYARTINYPNFRPTPKNSLMGAL 92
Db 64 PDLHNAVLSKMLGKAMKELNAEKRPVEEAERLKVQHLD---HPNKKYRPR----- 113
Qy 93 CGFGPLIFIIYIKTERDRKREKLIQEGKL 121
Db 114 -----RKKQARKARLRLEPGLL 129

RESULT 5
US-09-814-777A-15
; Sequence 15, Application US/09814777A
; Patent No. US20020142415A1
; GENERAL INFORMATION:
; APPLICANT: KOOPMAN, Peter Anthony
; APPLICANT: MUSCAT, George Eugene Orlando
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND POLYNUCLEOTIDES AND METHODS OF USING THEM
; FILE REFERENCE: 21415-0003
; CURRENT APPLICATION NUMBER: US/09/814,777A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: AU P06457
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 15
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Human
US-09-814-777A-15

Query Match 10.3%; Score 70; DB 10; Length 340;
Best Local Similarity 20.8%; Pred. No. 1;
Matches 31; Conservative 21; Mismatches 43; Indels 54; Gaps 5;

Qy 4 PKYPSLSRLTPELIDPAEYNISPETR--RAQAEKRLAIR-----AQLKREYLLQYN 52
Db 4 PASPPSPQSPRSPSPGRLGLSPAGRGEGQADESRIRRPMAFMWAKDERKRLAQN 63
Qy 53 D-----PNRGLIENPALLRMAYARTINYPNFRPTPKNSLMGAL 92
Db 64 PDLHNAVLSKMLGKAMKELNAEKRPVEEAERLKVQHLD---HPNKKYRPR----- 113
Qy 93 CGFGPLIFIIYIKTERDRKREKLIQEGKL 121
Db 114 -----RKKQARKARLRLEPGLL 129

RESULT 6
US-09-814-777A-18
; Sequence 18, Application US/09814777A
; Patent No. US20020142415A1
; GENERAL INFORMATION:
; APPLICANT: KOOPMAN, Peter Anthony
; APPLICANT: MUSCAT, George Eugene Orlando
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND POLYNUCLEOTIDES AND METHODS OF USING THEM
; FILE REFERENCE: 21415-0003
; CURRENT APPLICATION NUMBER: US/09/814,777A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: AU P06457
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 18
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(482)
; NAME/KEY: misc_feature
; LOCATION: (679)..(1919)

; OTHER INFORMATION: Exon 2
US-09-814-777A-18
Query Match 10.3%; Score 70; DB 10; Length 384;
Best Local Similarity 20.8%; Pred. No. 1.2;
Matches 31; Conservative 21; Mismatches 43; Indels 54; Gaps 5;

Qy 4 PKYPSLSRLTPELIDPAEYNISPETR--RAQAEKRLAIR-----AQLKREYLLQYN 52
Db 48 PASPPSPQSPRSPSPGRLGLSPAGRGEGQADESRIRRPMAFMWAKDERKRLAQN 107
Qy 53 D-----PNRGLIENPALLRMAYARTINYPNFRPTPKNSLMGAL 92
Db 108 PDLHNAVLSKMLGKAMKELNAEKRPVEEAERLKVQHLD---HPNKKYRPR----- 157
Qy 93 CGFGPLIFIIYIKTERDRKREKLIQEGKL 121
Db 158 -----RKKQARKARLRLEPGLL 173

RESULT 7
US-09-814-777A-20
; Sequence 20, Application US/09814777A
; Patent No. US20020142415A1
; GENERAL INFORMATION:
; APPLICANT: KOOPMAN, Peter Anthony
; APPLICANT: MUSCAT, George Eugene Orlando
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND POLYNUCLEOTIDES AND METHODS OF USING THEM
; FILE REFERENCE: 21415-0003
; CURRENT APPLICATION NUMBER: US/09/814,777A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: AU P06457
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 20
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Human
US-09-814-777A-20

Query Match 10.3%; Score 70; DB 10; Length 384;
Best Local Similarity 20.8%; Pred. No. 1.2;
Matches 31; Conservative 21; Mismatches 43; Indels 54; Gaps 5;

Qy 4 PKYPSLSRLTPELIDPAEYNISPETR--RAQAEKRLAIR-----AQLKREYLLQYN 52
Db 48 PASPPSPQSPRSPSPGRLGLSPAGRGEGQADESRIRRPMAFMWAKDERKRLAQN 107
Qy 53 D-----PNRGLIENPALLRMAYARTINYPNFRPTPKNSLMGAL 92
Db 108 PDLHNAVLSKMLGKAMKELNAEKRPVEEAERLKVQHLD---HPNKKYRPR----- 157
Qy 93 CGFGPLIFIIYIKTERDRKREKLIQEGKL 121
Db 158 -----RKKQARKARLRLEPGLL 173

RESULT 8
US-09-814-777A-100
; Sequence 100, Application US/09814777A
; Patent No. US20020142415A1
; GENERAL INFORMATION:
; APPLICANT: KOOPMAN, Peter Anthony
; APPLICANT: MUSCAT, George Eugene Orlando
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND POLYNUCLEOTIDES AND METHODS OF USING THEM
; FILE REFERENCE: 21415-0003
; CURRENT APPLICATION NUMBER: US/09/814,777A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: AU P06457
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn version 3.0

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; SEQ ID NO 100
; LENGTH: 470
; TYPE: PR
; ORGANISM: Human
US-09-814-777A-100

Query Match
Best Local Similarity 10.3%; Score 70; DB 10; Length 470;
Matches 31; Conservative 21; Mismatches 43; Indels 54; Gaps 5;

OY 4 PKYSSSLRTLPEDPAEYNISPEFR---RAQAEFLAIR-----AQLKREYLLQYN 52
Db 4 PASPPSPQSPRSPSPGRTGISTPAGRGBOADESRIRPNNAWVWAKDKRRLAQON 63

OY 53 D-----PNNRGLIENPALLRMAYARTINYPNFRPTPKNSLMGAL 92
Db 64 PDLNVAVLSKMLGKAMKELNAEKRPVEAEERLNVQHLRD---HPNKKYRR----- 113

OY 93 CGFGPLFIYIITKTERDRKEKLIQ---EGKIDRTFHL 127
Db 114 -----RKKQAKKARLEPGILL 129

RESULT 9
US-09-931-795-4
; Sequence 4, Application US/09931795
; Publication No. US20020198211A1
; GENERAL INFORMATION:
; APPLICANT: ROZEN, Rima
; TITLE OF INVENTION: CDNA FOR HUMAN METHYLENETETRAHYDROFOLATE
; FILE REFERENCE: 04844/005003
; CURRENT APPLICATION NUMBER: US/09/931,795
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 09/592,595
; PRIOR FILING DATE: 2000-06-12
; PRIOR APPLICATION NUMBER: US 09/258,928
; PRIOR FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: US 08/738,000
; PRIOR FILING DATE: 1997-02-12
; PRIOR APPLICATION NUMBER: PCT/CA95/00314
; PRIOR FILING DATE: 1995-05-25
; PRIOR APPLICATION NUMBER: GB 9410620.0
; PRIOR FILING DATE: 1994-05-26
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 656
; TYPE: PR
; ORGANISM: Homo sapiens
US-09-931-795-4

Query Match
Best Local Similarity 10.2%; Score 69; DB 9; Length 656;
Matches 29; Conservative 14; Mismatches 32; Indels 26; Gaps 6;

OY 35 ERLAIRAQLKREYLLQYNDPNRGLIENPALLRMAYARTINYPNFRPTPKNSLMGALCG 94
Db 458 EPLAETSLSLKEELLRV---NRGIL-----TINSQPINCKPSSD---PIVG 499

OY 95 FGP---LIF---IYIITKTERDRKEKLIQ---EGKIDRTFHL 127
Db 500 WPGSGGVFORAYLEFETSRETAELLQVLKKEELRVNHYL 540

RESULT 10
US-09-728-910-4
; Sequence 4, Application US/09728910
; Patent No. US20010025030A1
; GENERAL INFORMATION:
; APPLICANT: Rozen, Rima
; APPLICANT: Sekhon, Jaspreet
; TITLE OF INVENTION: CDNA FOR HUMAN METHYLENETETRAHYDROFOLATE
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; TITLE OF INVENTION: REDUCTASE AND USES THEREOF
; FILE REFERENCE: 04844/006001
; CURRENT APPLICATION NUMBER: US/09/728,910
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US 09/258,928
; PRIOR FILING DATE: 1999-03-01
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 656
; TYPE: PR
; ORGANISM: Homo sapiens
US-09-728-910-4

Query Match
Best Local Similarity 10.2%; Score 69; DB 10; Length 656;
Matches 29; Conservative 14; Mismatches 32; Indels 26; Gaps 6;

OY 35 ERLAIRAQLKREYLLQYNDPNRGLIENPALLRMAYARTINYPNFRPTPKNSLMGALCG 94
Db 458 EPLAETSLSLKEELLRV---NRGIL-----TINSQPINCKPSSD---PIVG 499

OY 95 FGP---LIF---IYIITKTERDRKEKLIQ---EGKIDRTFHL 127
Db 504 WPGSGGVFORAYLEFETSRETAELLQVLKKEELRVNHYL 544

RESULT 11
US-09-931-795-2
; Sequence 2, Application US/09931795
; Publication No. US20020198211A1
; GENERAL INFORMATION:
; APPLICANT: ROZEN, Rima
; TITLE OF INVENTION: CDNA FOR HUMAN METHYLENETETRAHYDROFOLATE
; FILE REFERENCE: 04844/005003
; CURRENT APPLICATION NUMBER: US/09/931,795
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 09/592,595
; PRIOR FILING DATE: 2000-06-12
; PRIOR APPLICATION NUMBER: US 09/258,928
; PRIOR FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: US 08/738,000
; PRIOR FILING DATE: 1997-02-12
; PRIOR APPLICATION NUMBER: PCT/CA95/00314
; PRIOR FILING DATE: 1995-05-25
; PRIOR APPLICATION NUMBER: GB 9410620.0
; PRIOR FILING DATE: 1994-05-26
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 660
; TYPE: PR
; ORGANISM: Homo sapiens
US-09-931-795-2

Query Match
Best Local Similarity 10.2%; Score 69; DB 9; Length 660;
Matches 29; Conservative 14; Mismatches 32; Indels 26; Gaps 6;

OY 35 ERLAIRAQLKREYLLQYNDPNRGLIENPALLRMAYARTINYPNFRPTPKNSLMGALCG 94
Db 462 EPLAETSLSLKEELLRV---NRGIL-----TINSQPINCKPSSD---PIVG 503

OY 95 FGP---LIF---IYIITKTERDRKEKLIQ---EGKIDRTFHL 127
Db 504 WPGSGGVFORAYLEFETSRETAELLQVLKKEELRVNHYL 544

RESULT 12
US-09-728-910-2
; Sequence 2, Application US/09728910
; Patent No. US20010025030A1
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: GENERAL INFORMATION:
: APPLICANT: Rozen, Rima
: APPLICANT: Sekhon, Jaspreet
: TITLE OF INVENTION: CDNA FOR HUMAN METHYLENETETRAHYDROFOLATE
: TITLE OF INVENTION: REDUCTASE AND USES THEREOF
: FILE REFERENCE: 04844/006001
: CURRENT APPLICATION NUMBER: US/09/728,910
: CURRENT FILING DATE: 2000-12-01
: PRIOR APPLICATION NUMBER: US 09/258,928
: PRIOR FILING DATE: 1999-03-01
: NUMBER OF SEQ ID NOS: 15
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 2
: LENGTH: 660
: TYPE: prt
: ORGANISM: Homo sapiens
: US-09-728-910-2

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	Query Match	10.2%	Score 69;	DB 10;	Length 660;
	Local Similarity	28.7%;	Pred. NO. 3.3;		
	Matches	29;	Conservative	14;	Mismatches 32; Indels 26; Gaps 6;
OY	35	EKLAIKRAQLKREYLLOYDNDPNRGLIENPALLRMVARTINYPNFRPPKNSLMGALCG	94		
		: : : : : : : : : : : :			
Dd	462	EPLAETSLKLEELRV---NRQGL-----TINSOPINCKPSSD---PIVG	503		
OY	95	FGR--LIF--LYYIIKTERDRKEKLIO---EGKLDTRPHL	127		
		: : : : : : : : : : : : : : : :			
Dd	504	WPGSGGYVFQKAYILEFTSRETAELLLOYLKKEYLRVNTHL	544		

RESULT 13
 US-10-068-059-12
 : Sequence 12 Application US/10066059
 : Patent No. US20020155434A1
 : GENERAL INFORMATION:
 : APPLICANT: Mizzen, Lee A.
 : APPLICANT: Hongwei, Liu
 : APPLICANT: Siegel, Marvin
 : TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
 : FILE REFERENCE: 12071-017002
 : CURRENT APPLICATION NUMBER: US/10/068, 059
 : CURRENT FILING DATE: 2002-06-04
 : PRIOR APPLICATION NUMBER: US 60/266,733
 : PRIOR FILING DATE: 2001-02-05
 : NUMBER OF SEQ ID NOS: 12
 : SOFTWARE: Fasteq for Windows Version 4.0
 : NO ID NO 12
 : LENGTH: 724
 : TYPE: PRP
 : ORGANISM: Artificial Sequence
 : FEATURE:
 : OTHER INFORMATION: protein
 US-10-068-059-12

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Qy      4  PRYKSS---LRTLEPRL-----DPAENISPEPTRAQAERLAIRAQAKRE---Y  47
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db      130  PAFRKNAPILSTLEETVYVRRDRGRSPRRPTSPRRRSOSPR--RRSOSRQCAK  187
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Qy      48  LLOYNDPNRGL  59
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Db      188  TIAYDEARRGL  199
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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RESULT 14
US-09-814-777A-99
; Sequence 99, Application US/09814777A
; Patent No. US20020142415A1
; GENERAL INFORMATION:

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? APPLICANT: KOODMAN, Peter Anthony
? APPLICANT: MUSCAT, George Eugene Orlando
? TITLE OF INVENTION: NOVEL POLYPEPTIDES AND POLYNUCLEOTIDES AND METHODS OF USING TH
? FILE REFERENCE: 21415-0003
? CURRENT APPLICATION NUMBER: US/09/814, 777A
? CURRENT FILING DATE: 2001-03-23
? PRIOR APPLICATION NUMBER: AU P06457
? PRIOR FILING DATE: 2000-03-24
? NUMBER OF SEQ ID NOS: 128
? SOFTWARE: patentIn version 3.0
? SEQ ID NO 99
? LENGTH: 462
? TYPE: PRT
? ORGANISM: Human
? US-09-814-777A-99

Query Match          10.0%  Score 67.5;  DB 10;  Length 462;
Best Local Similarity 29.7%;  Pred. No. 3.1;
Matches 19;  Conservative 11;  Mismatches 31;  Indels 3;  Gaps 2;

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	Query Match	10.0%:	Score 67.5:	DB 10;	Length 462:
	Best Local Similarity	29.7%:	Pred. No. 3.1;		
	Matches 19;	Conservative 11;	Mismatches 31;	Indels 3;	Gaps 2.
OY	4 PKYKSSRLTLPETLDPAAEYNISPETR--RAQAEKLAIKRAOLKREYLQYNDPNRGCLTE 61	: : : : : :			
Dd	4 PASPSPQSPRPSPPEPRGTGLSPAARGEROADESRITRRPM-NAPMWAKEDEKKRLAQO 62	: : : : : :			
OY	62 NPAL-65				
Dd	63 NPD L 66				

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RESULT 15
US-10-068-059-6
: Sequence 6, Application US/10068059
: Patent No. US2002015543A1
: GENERAL INFORMATION:
: APPLICANT: Mizzen, Lee A.
: APPLICANT: Hongwei, Liu
: APPLICANT: Siegel, Marvin
: TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
: FILE REFERENCE: 12071-017002
: CURRENT APPLICATION NUMBER: US/10/068,059
: CURRENT FILING DATE: 2002-06-04
: PRIOR APPLICATION NUMBER: US 60/266,733
: PRIOR FILING DATE: 2001-02-05
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 6
: LENGTH: 746
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Fusion protein
US-10-068-059-6

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		9.9%	Score 67;	DB 9;	Length 746;	
		Best Local Similarity	30.6%;	Pred. No. 6.9;		
Matches	22;	Conservative	9;	Mismatches	25;	Indels 16; Gaps 3.
OY	4	EKKRSS---RTLPETL-----DPAENISPERRRQAER---LAIRAQLKREY	47			
				:	:	
Dd	150	PATRPNPAPILSTLETTVVRNRDRGSRPRTTPSPRRRSQSPRRRSQSRESQCVMNAK	209			
OY	48	LLOYNDPNRRL 59				
		: :				
Db	210	TIAYDEARRGL 221				

Search completed: January 29, 2003, 13:33:56
Job time : 13 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 29, 2003, 13:29:43 : Search time 15 Seconds
(without alignments)
253.037 Million cell updates/sec

Title: US-09-726-899-3

Perfect score: 678
Sequence: 1 MSFVKRPSRLRTLPETLDP.....DRKELIQEGLDRFTFLSY 129

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

1 number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*
1: /cgn2_6/prodata/1/1aa/5A_COMB.pep:*
2: /cgn2_6/prodata/1/1aa/5B_COMB.pep:*
3: /cgn2_6/prodata/1/1aa/6A_COMB.pep:*
4: /cgn2_6/prodata/1/1aa/6B_COMB.pep:*
5: /cgn2_6/prodata/1/1aa/PCUTUS_COMB.pep:*
6: /cgn2_6/prodata/1/1aa/backfillsl.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	678	100.0	129	2	US-08-785-065-3
2	678	100.0	129	4	US-09-151-412-3
3	514	75.8	129	2	US-08-785-065-10
4	514	75.8	129	4	US-09-151-412-10
5	69.5	10.3	294	2	US-08-874-347-26
6	69.5	10.3	294	3	US-09-093-522-26
7	69	10.2	656	3	US-08-738-000-4
8	69	10.2	656	4	US-09-258-928-4
9	69	10.2	656	4	US-09-347-878-24
10	69	10.2	660	3	US-08-738-000-2
11	69	10.2	660	4	US-09-258-928-2
12	68	10.0	196	4	US-09-227-357-393
13	68	10.0	228	4	US-09-227-357-401
14	68	10.0	371	4	US-09-199-637A-295
15	68	10.0	864	4	US-09-604-978-11
16	64.5	9.5	285	4	US-09-173-300-24
17	64	9.4	152	1	US-07-644-372-2
18	64	9.4	305	2	US-08-946-528-1
19	63	9.3	3898	4	US-08-750-717-2
20	62.5	9.2	366	2	US-08-605-106-11
21	62	9.1	214	4	US-09-587-066-6
22	61.5	9.1	60	1	US-08-370-225-32
23	61.5	9.1	60	1	US-08-461-859-32
24	61.5	9.1	60	5	PCT-US93-10069-32
25	61.5	9.1	353	1	US-08-176-620A-14
26	61.5	9.1	353	2	US-08-461-985-14
27	61.5	9.1	353	4	US-08-932-787B-19

28	61.5	9.1	353	4	US-08-932-012C-19	Sequence 19, Appl
29	61.5	9.1	353	4	US-08-888-818C-19	Sequence 19, Appl
30	61.5	9.1	484	2	US-08-836-620A-13	Sequence 13, Appl
31	61.5	9.1	485	2	US-08-836-620A-2	Sequence 2, Appl1
32	61.5	9.1	1676	4	US-08-487-762-73	Sequence 2, Appl1
33	61	9.0	420	2	US-08-846-762-73	Sequence 73, Appl
34	61	9.0	619	1	US-08-472-934-4	Sequence 4, Appl1
35	61	9.0	619	1	US-08-472-934-12	Sequence 12, Appl
36	61	9.0	619	2	US-08-323-460A-4	Sequence 4, Appl1
37	61	9.0	619	2	US-08-461-146C-4	Sequence 4, Appl1
38	61	9.0	619	2	US-08-461-146C-12	Sequence 12, Appl
39	61	9.0	619	3	US-08-461-145C-4	Sequence 4, Appl1
40	61	9.0	619	3	US-08-461-145C-12	Sequence 12, Appl
41	61	9.0	619	4	US-09-423-890-10	Sequence 10, Appl
42	61	9.0	619	4	US-08-628-829-6	Sequence 6, Appl1
43	61	9.0	619	4	US-08-628-829-8	Sequence 8, Appl1
44	61	9.0	915	2	US-08-480-917-2	Sequence 2, Appl1
45	61	9.0	915	4	US-09-138-736-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-08-785-065-3
: Sequence 3, Application US/08785065
: Patent No. 5814451
GENERAL INFORMATION:
: APPLICANT: Bandman, Olga
: APPLICANT: Goll, Surya K.
: APPLICANT: Hillman, Jennifer L.
: TITLE OF INVENTION: NOVEL SUBUNITS OF NAAD DEHYDROGENASE
: NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM compatible
: OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/785,065
FILING DATE: Herewith
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0187 US
TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
TELEX:
: INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
: LENGTH: 129 amino acids
: TYPE: amino acid
STRANDEDNESS: single
: TOPOLOGY: linear
IMMEDIATE SOURCE:
: LIBRARY: Consensus
: CLONE: Consensus
US-08-785-065-3
Query Match 100.0%; Score 678; DB 2; Length 129;
Best Local Similarity 100.0%; Pred. No. 8,6e-75;

Matches 129; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSFPKPKSSRLTLPETLDPAEYNISPEPTRRAQERLAIRAOLKREYLLQYNDPNRGLI 60

Db 1 MSFPKPKSSRLTLPETLDPAEYNISPEPTRRAQERLAIRAOLKREYLLQYNDPNRGLI 60

QY 61 ENPALLRMAYARTINVPNFRPTPKNSLMGALCGFGLFIYIIKTERDRKEXLIOEGK 120

Db 61 ENPALLRMAYARTINVPNFRPTPKNSLMGALCGFGLFIYIIKTERDRKEXLIOEGK 120

QY 121 LDRTFHLSTY 129

Db 121 LDRTFHLSTY 129

RESULT 2

US-09-151-412-3

; Sequence 3; Application US/09151412

; Patent No. 6399345

; GENERAL INFORMATION:

; APPLICANT: Bandman, Olga

; APPLICANT: Goll, Surya K.

; APPLICANT: Hillman, Jennifer L.

; TITLE OF INVENTION: NOVEL SUBUNITS OF NADH DEHYDROGENASE

; NUMBER OF SEQUENCES: 12

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Drive

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FASTSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/151,412

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/785,065

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J.

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0187 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-855-0555

; TELEFAX: 415-845-4166

; TELEX:

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 129 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: Consensus

; CLONE: Consensus

; US-09-151-412-3

Query Match 100.0%; Score 678; DB 4; Length 129;

Best Local Similarity 100.0%; Pred. No. 8,6e-75;

Matches 129; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSFPKPKSSRLTLPETLDPAEYNISPEPTRRAQERLAIRAOLKREYLLQYNDPNRGLI 60

Db 1 MSFPKPKSSRLTLPETLDPAEYNISPEPTRRAQERLAIRAOLKREYLLQYNDPNRGLI 60

QY 61 ENPALLRMAYARTINVPNFRPTPKNSLMGALCGFGLFIYIIKTERDRKEXLIOEGK 120

Db 61 ENPALLRMAYARTINVPNFRPTPKNSLMGALCGFGLFIYIIKTERDRKEXLIOEGK 120

QY 121 LDRTFHLSTY 129

Db 121 LDRTFHLSTY 129

QY 121 LDRTFHLSTY 129

Db 121 LDRTFHLSTY 129

RESULT 3

US-08-785-065-10

; Sequence 10; Application US/08785065

; Patent No. 5814451

; GENERAL INFORMATION:

; APPLICANT: Bandman, Olga

; APPLICANT: Goll, Surya K.

; APPLICANT: Hillman, Jennifer L.

; TITLE OF INVENTION: NOVEL SUBUNITS OF NADH DEHYDROGENASE

; NUMBER OF SEQUENCES: 12

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Drive

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FASTSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/785,065

; FILING DATE: Herewith

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J.

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0187 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-855-0555

; TELEFAX: 415-845-4166

; TELEX:

; INFORMATION FOR SEQ ID NO: 10:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 129 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: GenBank

; CLONE: 114

; US-08-785-065-10

Query Match 75.8%; Score 514; DB 2; Length 129;

Best Local Similarity 73.6%; Pred. No. 7e-55;

Matches 95; Conservative 18; Mismatches 16; Indels 0; Gaps 0;

QY 1 MSFPKPKSSRLTLPETLDPAEYNISPEPTRRAQERLAIRAOLKREYLLQYNDPNRGLI 60

Db 1 MSFPKPKSSRLTLPETLDPAEYDISSETRKAQERLAIRSLKREYQOYDPSKRGYI 60

QY 61 ENPALLRMAYARTINVPNFRPTPKNSLMGALCGFGLFIYIIKTERDRKEXLIOEGK 120

Db 61 ENPALLRMAYARTINVPNFRPTPKNSLMGALCGFGLFIYIIKTERDRKEXLIOEGK 120

QY 121 LDRTFHLSTY 129

Db 121 LDRTFHLSTY 129

RESULT 4

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US-09-151-412-10
: Sequence 10 Application US/09151412
: Patent No. 6393345
: GENERAL INFORMATION:
: APPLICANT: Bandman, Olga
: APPLICANT: Goli, Surya K.
: APPLICANT: Hillman, Jennifer L.
: TITLE OF INVENTION: NOVEL SUBUNITS OF NADH DEHYDROGENASE
: NUMBER OF SEQUENCES: 12
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/151.412
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/785,065
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0187 US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: TELEX:
: INFORMATION FOR SEQ ID NO: 10:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 129 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: Genbank
: CLONE: 114
: US-09-151-412-10

Very Match 75.8%, Score 514, DB 4; Length 129;
: 1st Local Similarity 73.6%, Pred. No. 7e-55;
Matches 95; Conservative 18; Mismatches 16; Indels 0; Gaps 0;

OY 1 MSFFPKSSSLTDETDPAEYNTSPETRRQAERLAIRAQLKREYLLQYNDPNRRGLI 60
Db 1 MSFFPKSSSLTDETDPAEYNTSPETRRQAERLAIRAQLKREYLLQYNDPNRRGYI 60
OY 61 ENPALLMAVATFNTVNPFRPTPNSSLGALCGEPLFIYIIKTERDREKLIQECK 120
Db 61 EDPALVMTVYASANIYFNFRPTNTSLGALFGIGPLVYVYVKTDRDREKLIQECK 120
OY 121 LDRTFHLSY 129
Db 121 LDRTFNISY 129

RESULT 5
US-08-874-347-26
: Sequence 26, Application US/08874347
: Patent No. 5863741
: GENERAL INFORMATION:
: APPLICANT: Limper, Andrew H.
: APPLICANT: Leof, Edward B.
: APPLICANT: Thomas, Charles F.
: APPLICANT: Gustafson, Michael P.

```

```

1  TITLE OF INVENTION: CDC2 PROTEIN KINASE FROM PNEUMOCYSTIS
2  TITLE OF INVENTION: CARINII
3  NUMBER OF SEQUENCES: 26
4  CORRESPONDENCE ADDRESS:
5  ADDRESSEE: Fish & Richardson P.C., P.A.
6  STREET: 60 South Sixth Street, Suite 3300
7  CITY: Minneapolis
8  STATE: MN
9  COUNTRY: USA
10 ZIP: 55402
11 COMPUTER READABLE FORM:
12 MEDIUM TYPE: Diskette
13 COMPUTER: IBM Compatible
14 OPERATING SYSTEM: DOS
15 SOFTWARE: FastSeq for Windows Version 2.0
16 CURRENT APPLICATION DATA:
17 APPLICATION NUMBER: US/08/874,347
18 FILING DATE: 13-JUN-1997
19 CLASSIFICATION: 435
20 ATTORNEY/AGENT INFORMATION:
21 NAME: Ellinger, Mark S.
22 REGISTRATION NUMBER: 34,812
23 REFERENCE/DOCKET NUMBER: 07039/055001
24 TELECOMMUNICATION INFORMATION:
25 TELEPHONE: 612-335-5070
26 TELEFAX: 612-288-9696
27 TELEX:
28 INFORMATION FOR SEQ ID NO: 26:
29 SEQUENCE CHARACTERISTICS:
30 LENGTH: 294 amino acids
31 TYPE: amino acid
32 STRANDEDNESS: single
33 TOPOLOGY: linear
34 MOLECULE TYPE: protein
35 US-08-874-347-26
36
37 Query Match 10.3%, Score 69.5; DB 2; Length 294;
38 Best Local Similarity 36.2%; Pred. No. 2;
39 Matches 17; Conservative 9; Mismatches 20; Indels 1; Gaps 1.
40
41 Db 240 AFPKWAODLATIVPTLPAGLDLSKMLRYEPNRRITARAQLEHY 286
42
43 RESULT 6
44 US-09-093-522-26
45 Sequence 26, Application US/09093522
46 Patent No. 6015700
47 GENERAL INFORMATION:
48 APPLICANT: Limper, Andrew H.
49 APPLICANT: Leof, Edward B.
50 APPLICANT: Thomas, Charles F.
51 APPLICANT: Gustafson, Michael P.
52 TITLE OF INVENTION: CDC2 PROTEIN KINASE FROM PNEUMOCYSTIS
53 TITLE OF INVENTION: CARINII
54 NUMBER OF SEQUENCES: 26
55 CORRESPONDENCE ADDRESS:
56 ADDRESSEE: Fish & Richardson P.C., P.A.
57 STREET: 60 South Sixth Street, Suite 3300
58 CITY: Minneapolis
59 STATE: MN
60 COUNTRY: USA
61 ZIP: 55402
62 COMPUTER READABLE FORM:
63 MEDIUM TYPE: Diskette
64 COMPUTER: IBM Compatible
65 OPERATING SYSTEM: DOS
66 SOFTWARE: FastSeq for Windows Version 2.0
67 CURRENT APPLICATION DATA:
68 APPLICATION NUMBER: US/09/093,522
69 FILING DATE: 08-JUN-1998
70 CLASSIFICATION:

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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/874,347
FILING DATE: 13-JUN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Ellinger, Mark S.
REGISTRATION NUMBER: 34,812
REFERENCE/DOCKET NUMBER: 07039/055002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-335-5070
TELEFAX: 612-288-9696
TELEX:
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-093-522-26

Query Match 10.3%; Score 69.5; DB 3; Length 294;
Best Local Similarity 36.2%; Pred. No. 2;
Matches 17; Conservative 9; Mismatches 20; Indels 1; Gaps 1;
DB 240 APPKWOADLATVPTLDAGLDLSKMLRYEPNKRITAROALEHEY 286

RESULT 7
US-08-738-000-4
Sequence 4, Application US/08738000
Patent No. 6074821
GENERAL INFORMATION:
TITLE OF INVENTION: CDNA FOR HUMAN METHYLENETETRAHYDROFOLATE
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: KLAUBER & JACKSON
STREET: Continental Plaza - 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/738,000
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/CA95/00314
FILING DATE: 25-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9410620.0
FILING DATE: 26-MAY-1994
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 656 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-738-000-4

Query Match 10.2%; Score 69; DB 3; Length 656;
Best Local Similarity 28.7%; Pred. No. 6.6;
Matches 29; Conservative 14; Mismatches 32; Indels 26; Gaps 6;
DB 35 ERLAIRAOLKREYLLQYNDPNRGLIENPALLRWAVARTIVVYVNFRTPKNSLMGALCG 94

DB 458 EPLAETSLSKELLRY---NRQIL-----TINSQPNINGKRPSSD---PIVG 499
QY 95 FGP---LIF--IYIITKTRDKREKLIQ---EGKLDRTFHL 127
DB 500 WGPSCGYVFOKAYLEFTRSETAEALLQVLYKKEELRVNYHL 540

RESULT 8
US-09-258-928-4
Sequence 4, Application US/09258928
Patent No. 6218120
GENERAL INFORMATION:
APPLICANT: ROZEN, Rima
APPLICANT: GOVETTE, Philippe
TITLE OF INVENTION: CDNA FOR HUMAN METHYLENETETRAHYDROFOLATE
FILE REFERENCE: 0484/005002
CURRENT APPLICATION NUMBER: US/09/258,928
CURRENT FILING DATE: 1999-03-01
PRIOR APPLICATION NUMBER: 08/738,000
PRIOR FILING DATE: 1997-02-12
PRIOR APPLICATION NUMBER: GB 9410620.0
PRIOR FILING DATE: 1994-05-26
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 656
TYPE: PRT
ORGANISM: Homo sapiens
US-09-258-928-4

Query Match 10.2%; Score 69; DB 4; Length 656;
Best Local Similarity 28.7%; Pred. No. 6.6;
Matches 29; Conservative 14; Mismatches 32; Indels 26; Gaps 6;
QY 35 ERLAIRAOLKREYLLQYNDPNRGLIENPALLRWAVARTIVVYVNFRTPKNSLMGALCG 94
DB 458 EPLAETSLSKELLRY---NRQIL-----TINSQPNINGKRPSSD---PIVG 499
QY 95 FGP---LIF--IYIITKTRDKREKLIQ---EGKLDRTFHL 127
DB 500 WGPSCGYVFOKAYLEFTRSETAEALLQVLYKKEELRVNYHL 540

RESULT 9
US-09-347-878-24
Sequence 24, Application US/09347878C
Patent No. 6376210
GENERAL INFORMATION:
APPLICANT: Yuan, Chong
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES
FILE REFERENCE: 25885-1651
CURRENT APPLICATION NUMBER: US/09/347,878C
CURRENT FILING DATE: 1999-07-06
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 24
LENGTH: 656
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Human methylenetetrahydrofolate reductase (MTHFR)
OTHER INFORMATION: protein sequence
PUBLICATION INFORMATION:
DATABASE ACCESSION NUMBER: AF105977/genbank 1-11
US-09-347-878-24

Query Match 10.2%; Score 69; DB 4; Length 656;
Best Local Similarity 28.7%; Pred. No. 6.6;
Matches 29; Conservative 14; Mismatches 32; Indels 26; Gaps 6;
QY 35 ERLAIRAOLKREYLLQYNDPNRGLIENPALLRWAVARTIVVYVNFRTPKNSLMGALCG 94

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Db      458 EPLAETSLAKEELLRV---NRQGL-----TINSQPNINGKPSDD---PIVG 4950
OY      95 FGP---LIF--IYYIKTERDRKEKLQ---EGKLDRTFHL 127
       :||   :|   |   |   |   |   |   |   |   |
Db     500 WGFSGGYVFOKAYLEFFTSRETAELALQVLKKYEELRNHYH 540
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RESULT 10
US-08-738-000-2
; Sequence 2, Application US/08738000
; Patent No. 6074821

? GENERAL INFORMATION: CDNA FOR HUMAN METHYLENETETRAHYDROLATE
 ? TITLE OF INVENTION: REDUCTASE
 ? NUMBER OF SEQUENCES: 14
 ? CORRESPONDENCE ADDRESS:
 ? ADDRESSEE: KLAUBER & JACKSON
 ? STREET: Continental Plaza - 411 Hackensack Avenue
 ? CITY: Hackensack
 ? STATE: New Jersey
 ? COUNTRY: U.S.A.
 ? ZIP: 07601

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/738,000
FILING DATE:

1 CLASSIFICATION: 514
2
3 PRIOR APPLICATION DATA:
4 APPLICATION NUMBER: WO PCT/CA95/00314
5 FILING DATE: 25-MAY-1995
6 PRIOR APPLICATION DATA:
7 APPLICATION NUMBER: GB 9410620.0
8

```

      FILING DATE: 26-MAY-199
      INFORMATION FOR SEQ ID NO:
      : SEQUENCE CHARACTERISTICS:
      : LENGTH: 660 amino acids
      : TYPE: amino acid
      : TOPOLOGY: linear
      : MOLECULE TYPE: protein
US-08-738-000-2

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Query Match	10.2%;	Score 69;	DB 3;	Length 660;
Best Local Similarity	28.7%;	Pred. NO. 6.7;		
Matches 29;	Conservative 14;	Mismatches 32;	Indels	

```

35 ERLAIRAQLKREYLLQYNDPNRGLIENPALLRNAYARTINVPENFRTPKNSLMGALCG 94
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
462 EPLAETSLTLEELLRV---NRGIL-----TINSQPININKPSSD---PIVG 503

```

```
QY 95 FGP---LIF--IYYIKTERDKRELQ---EGKIDRTHL 127
      :|| :| | :| | :| :| :|
Db 504 WPGSGIVFQRAYLEEFSTHETAELLQVLKKYEAEVNVHL 544
```

RESULT 11
 US-09-258-928-2
 : Sequence 2, Application US/09258928
 : Patent No. 6218120
 : GENERAL INFORMATION:
 : APPLICANT: ROZEN, Rima
 : APPLICANT: GOVETTE, Philippe
 : TITLE OF INVENTION: CDNA FOR HUMAN METHYLENETETRAHYDROFOLATE
 : TITLE OF INVENTION: REDUCTASE
 : FILE REFERENCE: 04844/005002
 : CURRENT APPLICATION NUMBER: US/09/258, 928
 : CURRENT FILING DATE: 1999-03-01
 : PRIOR APPLICATION NUMBER: 08/738, 000
 : PRIOR FILING DATE: 1997-02-12
 : PRIOR APPLICATION NUMBER: GB 9410620.0

```

: PRIOR FILING DATE: 1994-05-26
: NUMBER OF SEQ. ID NOS.: 14
: SOFTWARE: FastSeq for Windows Version 4.0.
: SEQ ID NO. 2
: LENGTH: 660
: TYPE: prt
: ORGANISM: Homo sapiens
US-09-258-928-2

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Query Match	10.2%;	Score 69;	DB 4;	Length 660;
Best Local Similarity	28.7%;	Pred. No. 6.7;		
Matches	29;	Conservative	14;	Mismatches 32;
				Indels 26;
				Gaps 6

```

QY      35  ERLAIQAQKSEYLLQYNDPRRGLIENPALLBRAYARTIVYNNPPTPRNSLMGATCG  94
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Db     462  EPLAETSTLAEELLRV---NRQGL-----TINSQPNINGKPSDD---PIVG  503

```

Qy 95 FGR--LIF--IYYIIKTERDKRELIQ---EGKLDRTHL 127
::: :| | :| :| :| :| :| :| :|
Db 504 WPGSGIVFOKAYLEFITSRETAELLIQLKKYELRVNHYL 544

RESULT 12

US-09-227-357-393

Sequence 393, Application US/09227357

Patent No. 6342361

GENERAL INFORMATION:

APPLICANT: Fischer et al.

TITLE OF INVENTION: 123 Human Secreted Proteins

FILE REFERENCE: P2010p1

CURRENT APPLICATION NUMBER: US/09/227,357

CURRENT FILING DATE: 1999-01-08

EARLIER APPLICATION NUMBER: PCT/US98/13684

EARLIER FILING DATE: 1998-07-07

EARLIER APPLICATION NUMBER: 60/051,926

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,793

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,925

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,929

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,803

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,732

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,931

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,930

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,918

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,920

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,733

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,795

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,919

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,928

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/055,722

EARLIER FILING DATE: 1997-08-18

EARLIER APPLICATION NUMBER: 60/055,723

EARLIER FILING DATE: 1997-08-18

EARLIER APPLICATION NUMBER: 60/055,948

EARLIER FILING DATE: 1997-08-18

EARLIER APPLICATION NUMBER: 60/055,949


```
QY      111 RREKLIQEGKLDRTFHLSS 129
          :||| :|:| |
Db      162 KNEKLEGDAALNRLFQQIY 180
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```

RESULT 14
US-09-199-637A-295
Sequence 295, Application US/09199637A
Patent No. 6355411
GENERAL INFORMATION:
APPLICANT: Ausubel, Frederick
APPLICANT: Goodman, Howard M.
APPLICANT: Rahme, Laurence G.
APPLICANT: Mahajan-Miklos, Shalina
APPLICANT: Tan, Man-Wah
APPLICANT: Cao, Hui
APPLICANT: Drenkard, Eliana
APPLICANT: Tsongalis, John
TITLE OF INVENTION: VIRULENCE-ASSOCIATED NUCLEIC ACID
TITLE OF INVENTION: SEQUENCES AND USES THEREOF
FILE REFERENCE: 00786/361002
CURRENT APPLICATION NUMBER: US/09/199,637A
CURRENT FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: 60/066,517
PRIOR FILING DATE: 1997-11-25
NUMBER OF SEQ ID NOS: 437
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 295
LENGTH: 371
TYPE: PRF
ORGANISM: Pseudomonas aeruginosa
US-09-199-637A-295

```

Query Match	10.0%	Score 68	DB 4	Length 371
Best Local Similarity	30.3%	Pred. NO. 4.1		
Matches 30, Conservative 11		Mismatches 26	Indels 32	Gaps 6

QY 1 MSFFKYPSSLRTL-----PETLDPAEYNISPETRRROAERLAIRAOQKREYLLQYND 53
| : | | | | | | | | | : | : | : |
Db 83 MTRPSCLPSSLRTAFRRSSNSDRNLAP---ISAPMSRA-SRRLSLR----- 125

```

QY      54  PNRGLIEPALLRWAYARTINVYPERPPKNSLGCAL  92
          |  :  :  :  :  :  :  :  :  :  :  :  :
Db     126  PSC----TSPLMNRMRPSIMAVL-----PTGSPISGCL 156

```

RESULT 15
T 39-604-978-11

GENERAL INFORMATION:
APPLICANT: Einat, Paz
Skaltier, Rami
TITLE OF INVENTION: HYPOXIA-REGULATED GENES
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: KOHN & ASSOCIATES
STREET: 30500 No. 6455674thwestern Hwy., Suite 401
CITY: Farmington Hills
STATE: Michigan
COUNTRY: U. S.
ZIP: 48334
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/604,978
FILING DATE: 28-Jun-2000
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/138,112

```

? FILING DATE: <Unknown>
? ATTORNEY/AGENT INFORMATION:
? NAME: Kohn, Kenneth I.
? REGISTRATION NUMBER: 30,955
? REFERENCE/DOCKET NUMBER: 0168.0003
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (248) 539-5050
? TELEFAX: (248) 5395055
?
? INFORMATION FOR SEQ ID NO: 11:
?
? SEQUENCE CHARACTERISTICS:
? LENGTH: 864 amino acids
? TYPE: amino acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? HYDROTHERMAL: NO
?
? SEQUENCE DESCRIPTION: SEQ ID NO: 11:
?
?-OS-09-604-978-11

```

Query Match	10.08:	Score 68:	DB 4:	length 864:
Best Local Similarity	24.18:	Pred. NO. 13:		
Matches 33:	Conservative 17:	Mismatches 45:	Indels 42:	Gaps 7

[illegible]

QY 107 TERDRKEKLIQEGKLD R 123

Db 165 QERE-KELACLRGFDK 180

Search completed: January 29, 2003, 13:33:38
Job time : 17 secs

WEST**End of Result Set**☐ **Generate Collection** **Print**

L1: Entry 2 of 2

File: USPT

Sep 29, 1998

US-PAT-NO: 5814451

DOCUMENT-IDENTIFIER: US 5814451 A

TITLE: Subunits of NADH dehydrogenase

DATE-ISSUED: September 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bandman; Olga	Mountain View	CA		
Goli; Surya K.	Sunnyvale	CA		
Hillman; Jennifer L.	San Jose	CA		

US-CL-CURRENT: 435/6; 475/191, 536/23.2

CLAIMS:

What is claimed is:

1. An isolated and purified polynucleotide sequence encoding a NADH dehydrogenase subunit of SEQ ID NO:1.
2. A polynucleotide sequence which hybridizes under stringent conditions to the polynucleotide sequence of claim 1.
3. A hybridization probe comprising the polynucleotide sequence of claim 1.
4. An isolated and purified polynucleotide sequence comprising SEQ ID NO:2 or variants thereof encoding an active NADH dehydrogenase.
5. A polynucleotide sequence which is complementary to the polynucleotide sequence of claim 1 or variants thereof encoding an active NADH dehydrogenase.
6. A hybridization probe comprising the polynucleotide sequence of claim 5.
7. An expression vector containing the polynucleotide sequence of claim 1.
8. A host cell containing the vector of claim 7.
9. A method for producing a polypeptide comprising the amino acid sequence of SEQ ID NO:1 the method comprising the steps of:
 - a) culturing the host cell of claim 8 under conditions suitable for the expression of the polypeptide; and
 - b) recovering the polypeptide from the host cell culture.
10. A method for detection of polynucleotides encoding a NADH dehydrogenase subunit in a biological sample comprising the steps of:
 - a) hybridizing the polynucleotide of claim 5 to nucleic acid material of a biological sample, thereby forming a hybridization complex; and

b) detecting said hybridization complex, wherein the presence of said complex correlates with the presence of a polynucleotide encoding said NADH dehydrogenase subunit in said biological sample.

WEST

Generate Collection

Print

L1: Entry 1 of 2

File: USPT

Jun 4, 2002

US-PAT-NO: 6399345

DOCUMENT-IDENTIFIER: US 6399345 B2

TITLE: Subunits of NADH dehydrogenase

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bandman; Olga	Mountain View	CA		
Goli; Surya K.	Sunnyvale	CA		
Hillman; Jennifer L.	San Jose	CA		

US-CL-CURRENT: 435/191; 435/25

CLAIMS:

What is claimed is:

1. An isolated polypeptide selected from the group consisting of:

a) a recombinant human polypeptide comprising the amino acid sequence of SEQ ID NO:1, said recombinant polypeptide being free of other human amino acid sequences, and

b) a recombinant polypeptide comprising a naturally occurring human amino acid sequence at least 90% identical to the amino acid sequence of SEQ ID NO:1, said recombinant polypeptide being free of other human amino acid sequences.

2. An isolated polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:1.

3. An isolated polypeptide of claim 1, comprising a naturally occurring human amino acid sequence at least 90% identical to the amino acid sequence of SEQ ID NO:1, said polypeptide being free of other human amino acid sequences.

4. An isolated polypeptide of claim 1, comprising a naturally occurring human amino acid sequence at least 95% identical to the amino acid sequence of SEQ ID NO:1, said polypeptide being free of other human amino acid sequences.

5. A composition comprising a polypeptide of claim 1 and a pharmaceutically acceptable excipient.

6. A composition comprising a polypeptide of claim 2 and a pharmaceutically acceptable excipient.

7. A composition comprising a polypeptide of claim 3 and a pharmaceutically acceptable excipient.

8. A composition comprising a polypeptide of claim 4 and a pharmaceutically acceptable excipient.

9. A method for producing a polypeptide of claim 1, the method comprising:

a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 1, and

b) recovering the polypeptide so expressed.

10. A method for screening a compound for effectiveness as an agonist of a polypeptide of claim 1, the method comprising:

a) exposing a sample comprising a polypeptide of claim 1 to a compound, and

b) detecting agonist activity in the sample.

11. A method for screening a compound for effectiveness as an antagonist of a polypeptide of claim 1, the method comprising:

a) exposing a sample comprising a polypeptide of claim 1 to a compound, and

b) detecting antagonist activity in the sample.

12. A method of screening for a compound that specifically binds to the polypeptide of claim 1, said method comprising the steps of:

a) combining the polypeptide of claim 1 with at least one test compound under suitable conditions, and

b) detecting binding of the polypeptide of claim 1 to the test compound, thereby identifying a compound that specifically binds to the polypeptide of claim 1.

13. A method of screening for a compound that modulates the activity of the polypeptide of claim 1, said method comprising:

a) combining the polypeptide of claim 1 with at least one test compound under conditions permissive for the activity of the polypeptide of claim 1,

b) assessing the activity of the polypeptide of claim 1 in the presence of the test compound, and

c) comparing the activity of the polypeptide of claim 1 in the presence of the test compound with the activity of the polypeptide of claim 1 in the absence of the test compound, wherein a change in the activity of the polypeptide of claim 1 in the presence of the test compound is indicative of a compound that modulates the activity of the polypeptide of claim 1.

